

SEQUENCE LISTING

<110> Keefe, Anthony
Wilson, Charles
Burmeister, Paula
Keene, Sara Chesworth

<120> Method for In Vitro Selection of 2'-Substituted Nucleic Acids

<130> 23239-544

<140> US N/A

<141> 2003-12-03

<150> US 60/430,761

<151> 2002-12-03

<150> US 60/487,474

<151> 2003-07-15

<150> US 60/517,039

<151> 2003-11-04

<160> 468

<170> PatentIn version 3.2

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 gggagaggag agaacgttct cgntggtnna angcttttgt ngggntannt gtggatcggt 60
 acgactagca tcgatg 76

 <210> 52
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.H_48-A7

 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <400> 52
 gggagaggag agaacgttct cgtggctttg gaacgaattc ggatttggca cgggatcggt 60
 acgactagca tcgatg 76

 <210> 53
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.H_48-B7

 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <400> 53
 gggagaggag agaacgttct cgtgcgatgt cgtggatttc cgtttcgcaa gggatcggtta 60
 cgactagcat cgatg 75

 <210> 54

<211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.H_48-C7

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 54
 gggagaggag agaacgttct cgtgaagcag atgtcgttgg cgacttagag ggggatcgtt 60
 acgactagca tcgatg 76

<210> 55
 <211> 77
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.H_48-D7

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 55
 gggagaggag agaacgttct cgtgatttcg tgatgaggat ccgcgttttc tcgggatcgt 60
 tacgactagc atcgatg 77

<210> 56
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.H_48-E7

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 56
 gggagaggag agaacgttct cgctagtaac gatgacttga tgagcatccg aggatcgta 60
 cgactagcat cgatg 75

<210> 57
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.H_48-G7

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 57
 gggagaggag agaacgttct cgtcataagt aacgacgttg catgtggatc gcggatcggt 60
 acgactagca tcgatg 76

<210> 58
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.H_48-A8

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 58
 gggagaggag agaacgttct cgcaaggaga tggttgctag ctgagtacat gtggatcggt 60
 acgactagca tcgatg 76

<210> 59
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_43-B8

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 59
 gggagaggag agaacgttct cgcgatatgc agtttgagaa gtcgcgcatt cgggggatcg 60
 ttacgactag catcgatg 78

<210> 60
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-C8

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 60
 gggagaggag agaacgttct cgtgacgacgg gcttcttggtg tcattcgcat gggatcggtta 60
 cgactagcat cgatg 75

<210> 61
 <211> 76
 <212> DNA

<213> Artificial:clone of aptamer PB.97.126.I_48-D8

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 61
 gggagaggag agaacgttct cggcattgca gttgataggt cgcgcagtgc tgggatcggt 60
 acgactagca tcgatg 76

<210> 62
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-E8

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 62
 gggagaggag agaacgttct cgcgatatgc agtctgagaa gtcgcgcatt cgagggatcg 60
 ttacgactag catcgatg 78

<210> 63
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-F8

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 63
 gggagaggag agaacgttct cgtgtagcaa gcatgtggat cgcgactgca cgggatcggt 60
 acgactagca tcgatg 76

<210> 64
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-G8

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 64
 gggagaggag agaacgttct cggataagca gttgagatgt cgcgctttga cgggatcggt 60

acgactagca tcgatg

76

<210> 65
<211> 75
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.I_48-H8

<220>
<221> misc_feature
<223> Isolate from r/mGmH aptamer pool

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, or t

<400> 65
gggagaggag agaacgttct cgatgancan ttgagaagt cgcgcttgct gggatcgta 60
cgactagcat cgatg 75

<210> 66
<211> 75
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.I_48-A9

<220>
<221> misc_feature
<223> Isolate from r/mGmH aptamer pool

<400> 66
gggagaggag agaacgttct cgagtaatgc agtggaagtc gcgcattacc tgggatcgta 60
acgactagca tcatg 75

<210> 67
<211> 78
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.I_48-B9

<220>
<221> misc_feature
<223> Isolate from r/mGmH aptamer pool

<400> 67

gggagaggag agaacgttct cgcgatatgc agtttgagaa gtcgcgcatc cggggggatcg 60
 ttacgactag catcgatg 78

<210> 68
 <211> 73
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-C9

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g, or t

<400> 68
 gggagaggag agaacgttct cgtgatncag ttganaagtc ncgcatcacg gatcggttacg 60
 actagcatcg atg 73

<210> 69
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-D9

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 69
 gggagaggag agaacgttct cgagtaatgc tgtggaagtc gcgcatcttc tgggatcggt 60
 acgactagca tcgatg 76

<210> 70
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-D8

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

 <400> 70
 gggagaggag agaacgttct cggcattgca gttgataggt cgcgcagtgc tgggatcgtt 60
 acgactagca tcgatg 76

 <210> 71
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-F9

 <220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

 <400> 71
 gggagaggag agaacgttct cgcgatatgc agtttgggaa gtcgcgcatt cgagggatcg 60
 ttacgactag catcgatg 78

 <210> 72
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-G9

 <220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

 <220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g, or t

 <400> 72
 gggagaggag agaacgttct cgcnatatgc tgtttganaa ntcgcgcatt cgggggatcg 60
 ttacgactag catcgatg 78

<210> 73
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-H9

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 73
 gggagaggag agaacgttct cgcgtagatt gggctgaatg ggatatcttt agcgggatcg 60
 ttacgactag catcgatg 78

<210> 74
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-B10

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 74
 gggagaggag agaacgttct cgcgatatgc agtttgagaa gtcgcgcttt cgagggatcg 60
 ttacgactag catcgatg 78

<210> 75
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.I_48-D10

<220>
 <221> misc_feature
 <223> Isolate from r/mGmH aptamer pool

<400> 75
 gggagaggag agaacgttct cgtcaatctg atgtagcctc acgtgggcgg agtcggatcg 60
 ttacgactag catcgatg 78

<210> 76
 <211> 45
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-F10

<220>
 <221> misc_feature

<223> Isolate from toggle aptamer pool

 <400> 76
 gggagaggag agaacgttct cggatcgta cgactagcat cgatg 45

 <210> 77
 <211> 45
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-G10

 <220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 77
 gggagaggag agaacgttct cggatcgta cgactagcat cgatg 45

 <210> 78
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-H10

 <220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 78
 gggagaggag agaacgttct cggtggtgtt gctgaactgt cgcgtttcgc cgggacgtt 60
 acgactagca tcgatg 76

 <210> 79
 <211> 77
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-A11

 <220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 79
 gggagaggag agaacgttct cgtcgcgatt gcatattttc cgccttgctg tgaggatcgt 60
 tacgactagc atcgatg 77

 <210> 80
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-B11

<220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 80
 gggagaggag agaacgttct cgcgatttgc agtttgagat gtcgcgcatc cgagggatcg 60
 ttacgactag catcgatg 78

 <210> 81
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-C11

 <220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 81
 gggagaggag agaacgttct cgcgatatgc agtttgagaa gtcgcgcatc cgggggatcg 60
 ttacgactag catcgatg 78

 <210> 82
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-D11

 <220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 82
 gggagaggag agaacgttct cgttggtgca gtttgagatg tcgcgcacct tgggatcggt 60
 acgactagca tcgatg 76

 <210> 83
 <211> 80
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-E11

 <220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 83
 gggagaggag agaacgttct cggtattggt tccattaagc tggacactct gctccgggat 60
 cgttacgact agcatcgatg 80

<210> 84
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-F11

<220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

<400> 84
 gggagaggag agaacgttct cgttggtgca gtttgagatg tcgcgcgcct tgggatcggt 60
 acgactagca tcgatg 76

<210> 85
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-G11

<220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

<220>
 <221> misc_feature
 <222> (65)..(65)
 <223> n is a, c, g, or t

<400> 85
 gggagaggag agaacgttct cgcgatatgc agtttgagaa gtcgcgcatt cgagggatcg 60
 ttacnactag catcgatg 78

<210> 86
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-A12

<220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

<400> 86
 gggagaggag agaacgttct cgcgatatgc agtttgagaa gtcgcgcatt cgggggatcg 60
 ttacgactag catcgatg 78

<210> 87
 <211> 80

<212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-B12

<220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

<220>
 <221> misc_feature
 <222> (28)..(29)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (33)..(34)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (42)..(42)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, or t

<400> 87
 gggagaggag agaacgctct cggggacnna aannccaatt gncgcgtgng tccgggggag 60
 cgcccgacta gtcacgatg 80

<210> 88
 <211> 78
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-C12

<220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

<220>
 <221> misc_feature
 <222> (30)..(30)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (32)..(32)
 <223> n is a, c, g, or t

<400> 88
 gggagaggag agaacgttct cgcgatatgn antttgagaa gtcgcgcatt cgggggatcg 60

ttacgactag catcgatg 78

<210> 89
<211> 75
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.J_48-D12

<220>
<221> misc_feature
<223> Isolate from toggle aptamer pool

<400> 89
gggagaggag agaacgttct cgggtgtacag cttgagatgt cgcgtactcc gggatcgta 60
cgactagcat cgatg 75

<210> 90
<211> 78
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.J_48-E12

<220>
<221> misc_feature
<223> Isolate from toggle aptamer pool

<400> 90
gggagaggag agaacgttct cgcgatatgc agtttgagaa gtcgcgcatt cgggggatcg 60
ttacgactag catcgatg 78

<210> 91
<211> 76
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.J_48-F12

<220>
<221> misc_feature
<223> Isolate from toggle aptamer pool

<400> 91
gggagaggag agaacgttct cgagtaagaa agctgaatgg tcgcacttct cgggatcggt 60
acgactagca tcgatg 76

<210> 92
<211> 78
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.J_48-G12

<220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 92
 agggagagga agaacgttct cgcgatgtgc agtttgagaa gtcgcgcatc cgagggatcg 60

 ttacgactag catcgatg 78

 <210> 93
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.J_48-H12

 <220>
 <221> misc_feature
 <223> Isolate from toggle aptamer pool

 <400> 93
 gggagaggag agaacgttct cgaaagaatc agcatgcgga tcgcggtttt cgggatcggt 60

 acgactagca tcgatg 76

 <210> 94
 <211> 79
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-A1

 <220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

 <220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n is a, c, g, or t

 <220>
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 <222> (31)..(31)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n is a, c, g, or t

 <220>

<221> misc_feature
 <222> (35)..(35)
 <223> n is a, c, g, or t

<400> 94
 gggagaggag agaacgttct cgantccant ntnctggag gagtaagtac ctgagggatc 60
 gttacgacta gcatcgatg 79

<210> 95
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-B1

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<220>
 <221> misc_feature
 <222> (45)..(45)
 <223> n is a, c, g, or t

<400> 95
 gggagaggag agaacgttct cgggaaacaa ggaacttaga gttanttgac cgggatcggt 60
 acgactagca tcgatg 76

<210> 96
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-C1

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<400> 96
 gggagaggag agaacgttct cgtaccatgc aaggaacata atagtttagcg tgggatcggt 60
 acgactagca tcgatg 76

<210> 97
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-D1

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<400> 97
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 acgactagca tcgatg 76

<210> 98
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-E1

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<400> 98
 gggagaggag agaacgttct cgtctgcaag gaacacaata gttagcattg cgggatcggt 60
 acgactagca tcgatg 76

<210> 99
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-F1

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<400> 99
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 acgactagca tcgatg 76

<210> 100
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-G1

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<400> 100
 gggagaggag agaacgttct cgattgcaaa atagctgtag aactaagcaa tcggatcggt 60
 acgactagca tcgatg 76

<210> 101
 <211> 76
 <212> DNA

<213> Artificial:clone of aptamer PB.97.126.A_44-H1

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<400> 101
 gggagaggag agaacgttct cgtgagatga ctatgttaag atgacgctgt tgggatcggt 60
 acgactagca tcgatg 76

<210> 102
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-A2

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g, or t

<400> 102
 gggagaggag agaacgttct cggganacaa ggaacncaat atttagtgaa cgggatcggt 60
 acgactagca tcgatg 76

<210> 103
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-B2

<220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

<400> 103
 gggagaggag agaacgttct cgccaaggaa cacaatagtt aggtgagaat cgggatcggt 60
 acgactagca tcgatg 76

<210> 104
 <211> 75

<212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-C2

 <220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

 <400> 104
 gggagaggag agaacgttct cggtagaagg aacacaatag ttagtgccgt gggatcgta 60
 cgactagcat cgatg 75

 <210> 105
 <211> 77
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-D2

 <220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

 <400> 105
 gggagaggag agaacgttct cgattcaacg gtccaaaaaa gctgtagtac ttaggacgtt 60
 tacgactagc atcgatg 77

 <210> 106
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-E2

 <220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

 <400> 106
 gggagaggag agaacgttct cgcaatgcaa ggaacacaat agttagcagc cgggatcggt 60
 acgactagca tcgatg 76

 <210> 107
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.A_44-F2

 <220>
 <221> misc_feature
 <223> Isolate from rN aptamer pool

 <400> 107

gggagaggag agaacgttct cgaaaggaga aagctgaagt acttactatg cgggatcggt 60
acgactagca tcgatg 76

<210> 108
<211> 76
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.A_44-G2

<220>
<221> misc_feature
<223> Isolate from rN aptamer pool

<400> 108
gggagaggag agaacgttct cgcacaagga acacaatagt tagtgcaaga cgggatcggt 60
acgactagca tcgatg 76

<210> 109
<211> 76
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.A_44-A3

<220>
<221> misc_feature
<223> Isolate from rN aptamer pool

<400> 109
gggagaggag agaacgttct cgcacaagga actacgagtt agtgtgggag tgggatcggt 60
acgactagca tcgatg 76

<210> 110
<211> 76
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.A_44-B3

<220>
<221> misc_feature
<223> Isolate from rN aptamer pool

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acgactagca tcgata 76

<210> 111
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<220>
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 cgactagcat cgatg 75

 <210> 112
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.B_44-E3

 <220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

 <400> 112
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 <210> 113
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.B_44-F3

 <220>
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 <223> Isolate from rRmY aptamer pool

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 <210> 114
 <211> 76
 <212> DNA
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 <223> Isolate from rRmY aptamer pool

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acgactagca tcgatg

76

<210> 115

<211> 77

<212> DNA

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<220>

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<223> Isolate from rRmY aptamer pool

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<210> 116

<211> 76

<212> DNA

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<210> 117

<211> 76

<212> DNA
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<220>
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 <212> DNA
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<210> 119
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<220>
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 <223> Isolate from rRmY aptamer pool

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 acgactagca tcgatg 76

<210> 120
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 <212> DNA
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<220>
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<223> Isolate from rRmY aptamer pool

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acaactagca tcgatg 76

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acgactagca tcgatg 76

<210> 122
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acgactagca tcgatg 76

<210> 123
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<212> DNA
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<223> Isolate from rRmY aptamer pool

<400> 123
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ttacgactag catcgatg 78

<210> 124
<211> 76
<212> DNA
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acgactagca tcgatg 76

<210> 125
<211> 76
<212> DNA
<213> Artificial:clone of aptamer PB.97.126.B_44-B5

<220>
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 <223> Isolate from rRmY aptamer pool

 <400> 125
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 acgactagca tcgatg 76

 <210> 126
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.B_44-C5

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 <223> Isolate from rRmY aptamer pool

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 <223> n is a, c, g, or t

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 <210> 127
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.B_44-D5

 <220>
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 <223> Isolate from rRmY aptamer pool

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 <212> DNA
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 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.B_44-F5

<220>
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 <223> Isolate from rRmY aptamer pool

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 <212> DNA
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<400> 130
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<210> 131
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<220>
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<400> 131
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acgactagca tcgatg 76

<210> 132
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 <212> DNA
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 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.C_44-B6

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 <212> DNA
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 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.C_44-D6

<220>
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 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.C_44-E6

 <220>
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 <212> DNA
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<210> 139
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<220>
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<210> 141
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.C_44-B7

<220>
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 <212> DNA
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 <220>
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 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.C_44-D7

 <220>
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 <210> 144
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 <212> DNA
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 <220>
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<210> 145
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<210> 146
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<210> 147
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 <212> DNA
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<220>
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 acgactagca tcgatg 76

<210> 148
 <211> 76
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<220>
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 acgactagca tcgatg 76

 <210> 149
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.D_44-D8

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 <212> DNA
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<210> 154
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<210> 155
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 acgactagca tcgatg 76

<210> 156
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 <213> Artificial:clone of aptamer PB.97.126.D_44-D9

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<210> 157
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<210> 158
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<210> 160
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<210> 162
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 168
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tncanctagc nncnnta 77

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<212> DNA
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<220>
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<223> Isolate from toggle aptamer pool

<400> 169
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acgactagca tcgatg 76

<210> 170
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<212> DNA
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<220>
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 <400> 170
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 <210> 171
 <211> 45
 <212> DNA
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 <220>
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 <210> 172
 <211> 78
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 ttacgactag catcgatg 78

 <210> 173
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 <212> DNA
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<210> 174
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<220>
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 acgactagca tcgatg 76

<210> 175
 <211> 76
 <212> DNA
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<220>
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 <223> Isolate from toggle aptamer pool

<400> 175
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 acgactagca tcgatg 76

<210> 176
 <211> 76
 <212> DNA
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<220>
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<210> 177
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<220>
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<210> 178
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 <212> DNA
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<220>
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<400> 178
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 acgactagca tcgatg 76

<210> 179
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 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.E_44-C12

<220>
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<400> 179
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 acgactagca tcgatg 76

<210> 180
 <211> 76
 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.E_44-D12

<220>
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 <223> Isolate from toggle aptamer pool

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 acgactagca tcgatg 76

<210> 181
 <211> 76

<212> DNA
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 acgactagca tcgatg 76

<210> 182
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 <212> DNA
 <213> Artificial:clone of aptamer PB.97.126.E_44-G12

<220>
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<400> 182
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 acgactagca tcgatg 76

<210> 183
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<222> (30)..(30)
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<222> (46)..(46)
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<220>
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<223> n is a, c, g, or t

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tacgactagc atcgatg                                                    77

<210> 184
<211> 30
<212> RNA
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<220>
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<223> cm

<220>
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<220>
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<222> (3)..(3)
<223> 2'-O-methyl-adenosine

<220>
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<222> (4)..(4)
<223> um

<220>
<221> misc_feature
<222> (5)..(5)
<223> 2'-O-methyl-adenosine

<220>
<221> modified_base

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<222> (6)..(6)
 <223> um

 <220>
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 <223> gm

 <220>
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 <223> cm

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 <223> 2'-O-methyl-adenosine

 <220>
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 <222> (10)..(10)
 <223> gm

 <220>
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 <222> (11)..(13)
 <223> um

 <220>
 <221> modified_base
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 <223> gm

 <220>
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 <223> 2'-O-methyl-adenosine

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 <222> (16)..(16)
 <223> gm

 <220>
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 <222> (17)..(18)
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 <223> um

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<223> cm

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<223> cm

<220>
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<220>
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<222> (27)..(28)
<223> um

<220>
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<222> (29)..(29)
<223> cm

<400> 184
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30

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<210> 185
<211> 30
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<213> Artificial: r/mGmH aptamer ARC225 - Stabilized VEGF Aptamer

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<223> cm

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<220>

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<222> (2)..(2)
<223> gm

<220>
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<222> (3)..(3)
<223> 2'-O-methyl adenosine

<220>
<221> modified_base
<222> (4)..(4)
<223> um

<220>
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<223> 2'-O-methyl adenosine

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<223> um

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<223> gm

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<223> cm

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<223> 2'-O-methyl adenosine

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<400> 185
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30

<210> 186
<211> 24
<212> RNA
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<220>
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<222> (3)..(3)
<223> um

<220>
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<222> (5)..(5)
<223> 2'-O-methyl adenosine

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<220>
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<223> 2'-O-methyl adenosine

<220>
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<222> (23)..(23)
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<220>
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<400> 186
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24

<210> 187
<211> 23
<212> RNA
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<223> gm

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<223> gm

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<223> cm
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 <222> (22)..(22)
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<220>
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<400> 187
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23

<210> 188
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<220>
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 <223> 2'-O-methyl adenosine

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 <400> 188
 ncgcnguuug ngngnucgcg cgu 23

 <210> 189
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 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

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 atcgatcgat cgatgaaggg cg 82

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 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE A5

 <220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

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 atcgatcgat cgatg 75

 <210> 191
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE A6

 <220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

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atcgatcgat cgatg 75

<210> 192
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE A7

<220>
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 <223> Isolate from dRmY aptamer pool

<400> 192
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 atcgatcgat cgatg 75

<210> 193
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE A8

<220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

<400> 193
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 atcgatcgat cgatg 75

<210> 194
 <211> 74
 <212> DNA
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<220>
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 <223> Isolate from dRmY aptamer pool

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<210> 195
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE B6

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 <223> Isolate from dRmY aptamer pool

<220>
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 <222> (38)..(38)
 <223> n is a, c, g, or t

<220>
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 <222> (48)..(48)
 <223> n is a, c, g, or t

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 atcgatcgat cgatg 75

<210> 196
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE B7

<220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

<400> 196
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 atcgatcgat cgatg 75

<210> 197
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE B8

<220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

<400> 197
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 atcgatcgat cgatg 75

<210> 198
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE C5

<220>
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 <223> Isolate from dRmY aptamer pool

 <400> 198
 gggagaggag agaacgttct acgcagcgca tctggggacc caagagggga ttcgctgtcg 60
 atcgatcgat cgatg 75

 <210> 199
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 <220>
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 atcgatcgat cgatg 75

 <210> 200
 <211> 73
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 <213> Artificial:clone of aptamer IgE C7

 <220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

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 cgatcgatcg atg 73

 <210> 201
 <211> 74
 <212> DNA
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 <400> 201
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 tcgatcgatc gatg 74

<210> 202
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 <213> Artificial:clone of aptamer IgE D5

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<400> 202
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 atcgatcgat cgatg 75

<210> 203
 <211> 75
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<220>
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<400> 203
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 atcgatcgat cgatg 75

<210> 204
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer IgE D7

<220>
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<400> 204
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 atcgatcgat cgatg 75

<210> 205
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<220>

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 atcgatcgat cgatg 75

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<220>
 <221> misc_feature
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 atcgatcgat cgatg 75

<210> 207
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 <213> Artificial:clone of aptamer IgE E6

<220>
 <221> misc_feature
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<210> 214
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<220>
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<220>
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<220>
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<220>
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<220>

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<210> 229

<211> 75

<212> DNA

<213> Artificial:clone of aptamer Thrombin C1

<220>

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<400> 229

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<220>
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<220>
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atcgatcgat cgatg 75

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<220>
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 <220>
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 atcgatcgat cgatg 75

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<220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

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<210> 276

<211> 73
 <212> DNA
 <213> Artificial:clone of aptamer VEGF G12

<220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

<400> 276
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 cgatcgatcg atg 73

<210> 277
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer VEGF H9

<220>
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 <223> Isolate from dRmY aptamer pool

<400> 277
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 atcgatcgat cgatg 75

<210> 278
 <211> 74
 <212> DNA
 <213> Artificial:clone of aptamer VEGF H11

<220>
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 <223> Isolate from dRmY aptamer pool

<400> 278
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<210> 279
 <211> 75
 <212> DNA
 <213> Artificial:clone of aptamer VEGF H12

<220>
 <221> misc_feature
 <223> Isolate from dRmY aptamer pool

<400> 279
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 atcgatcgat cgatg 75

<210> 280
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.G01

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 280
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 tcgatcgatc gatgaagggc g 81

<210> 281
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 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.A06

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 281
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<210> 282
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.E02

<220>
 <221> misc_feature
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<400> 282
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 atcgatcgat cgatgaaggg cg 82

<210> 283
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 <212> DNA

<213> Artificial:clone of aptamer ARX34P2.H05

<220>

<221> misc_feature

<223> Isolate from rRmY aptamer pool

<400> 283

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tcgatcgatc gatgaagggc g 81

<210> 284

<211> 82

<212> DNA

<213> Artificial:clone of aptamer ARX34P2.G04

<220>

<221> misc_feature

<223> Isolate from rRmY aptamer pool

<400> 284

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<210> 285

<211> 81

<212> DNA

<213> Artificial:clone of aptamer ARX34P2.G03

<220>

<221> misc_feature

<223> Isolate from rRmY aptamer pool

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<211> 82

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<213> Artificial:clone of aptamer ARX34P2.H06

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<220>
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<210> 288
<211> 82
<212> DNA
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<220>
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<223> Isolate from rRmY aptamer pool

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atcgatcgat cgatgaaggg cg 82

<210> 289
<211> 81
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.D05

<220>
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tcgatcgatc gatgaagggc g 81

<210> 290
<211> 83
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.C05

<220>
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 gatcgatcga tcgatgaagg gcg 83

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 <223> n is a, c, g, or t

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 cgatcgatcg atcgatgaag ggcg 84

 <210> 292
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 <213> Artificial:clone of aptamer ARX34P2.E06

 <220>
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<210> 293
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<212> DNA
<213> Artificial:clone of aptamer ARX34P2.A01

<220>
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<400> 293
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atcgatcgat cgatgaaggg cg 82

<210> 294
<211> 82
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.C06

<220>
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atcgatcgat cgatgaaggg cg 82

<210> 295
<211> 82
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.B04

<220>
<221> misc_feature
<223> Isolate from rRmY aptamer pool

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atcgatcgat cgatgaaggg cg 82

<210> 296
<211> 81
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.E04

<220>
<221> misc_feature

<223> Isolate from rRmY aptamer pool

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<210> 297
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<220>
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<210> 298
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.B06

<220>
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<210> 299
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.F05

<220>
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<400> 299
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<210> 300

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<211> 82
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<213> Artificial:clone of aptamer ARX34P2.H02

<220>
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<223> n is a, c, g, or t

<220>
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<222> (72)..(72)
<223> n is a, c, g, or t

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atcnatcnat cnatgaaggg cg                                             82

<210> 301
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<220>
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<223> Isolate from rRmY aptamer pool

<220>
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<222> (31)..(31)
<223> n is a, c, g, or t

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<221> misc_feature

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<222> (35)..(35)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (47)..(47)
 <223> n is a, c, g, or t

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 atcgatcgat cgatgaaggg cg 82

 <210> 302
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.D01

 <220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

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 gatcgatcga tcgatgaagg gcg 83

 <210> 303
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 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.A03

 <220>
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 <223> Isolate from rRmY aptamer pool

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 <210> 304
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 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.B02

 <220>
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 <400> 304

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atcgatcgat cgatgaaggg cg 82

<210> 305
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<212> DNA
<213> Artificial:clone of aptamer ARX34P2.C01

<220>
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<400> 305
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cgatcgatcg atgaaggggc 80

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<211> 81
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.D06

<220>
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<400> 306
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tcgatcgatc gatgaagggc g 81

<210> 307
<211> 82
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.G05

<220>
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<400> 307
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atcgatcgat cgatgaaggg cg 82

<210> 308
<211> 82
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.F06

<220>
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 <400> 308
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 atcgatcgat cgatgaaggg cg 82

 <210> 309
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.F02

 <220>
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 atcgatcgat cgatgaaggg cg 82

 <210> 310
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 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.B05

 <220>
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 <220>
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atcgatcgat cgatgaaggg cg 82

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<220>
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 <223> Isolate from rRmY aptamer pool

<220>
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<220>
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 <222> (27)..(27)
 <223> n is a, c, g, or t

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<210> 313
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.F04

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

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 atcgatcgat cgatgaaggg cg 82

<210> 314
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.E10

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 314
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atcgatcgat cgatgaaggg cg 82

<210> 315
<211> 80
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.H09

<220>
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cgatcgatcg atgaaggggc 80

<210> 316
<211> 81
<212> DNA
<213> Artificial:clone of aptamer ARX34P2.A07

<220>
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<400> 316
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tcgatcgatc gatgaagggc g 81

<210> 317
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<212> DNA
<213> Artificial:clone of aptamer ARX34P2.A12

<220>
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<220>
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<223> n is a, c, g, or t

<220>
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<222> (60)..(60)
<223> n is a, c, g, or t

<400> 317

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<210> 318
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 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.A08

<220>
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<210> 319
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 <212> DNA
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<220>
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<400> 319
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<210> 320
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<210> 321
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 <213> Artificial:clone of aptamer ARX34P2.E12

<220>
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<210> 322
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<220>
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<210> 323
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.F07

<220>
 <221> misc_feature
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<400> 323
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 atcgatcgat cgatgaaggg cg 82

<210> 324
 <211> 82
 <212> DNA
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<220>
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<400> 324
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<210> 325
 <211> 82
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<220>
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<210> 326
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 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.A09

<220>
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<210> 327
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<220>


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<222> (75)..(75)
<223> n is a, c, g, or t

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<210> 328
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<212> DNA
<213> Artificial:clone of aptamer ARX34P2.H10

<220>
<221> misc_feature
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<400> 328
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atcgatcgat cgatgaaggg cg 82

<210> 330
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<220>
<221> misc_feature
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<221> misc_feature
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 <223> n is a, c, g, or t

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 atcgatcgat cgatgaaggg cg 82

<210> 333
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<220>
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 <223> Isolate from rGmH aptamer pool

<400> 333
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<210> 334
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<220>
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<210> 335
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.C07

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

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<210> 336
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 <213> Artificial:clone of aptamer ARX34P2.E08

<220>
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<210> 337
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<220>
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 atcgatcgat cgatgaaggg cg 82

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<220>
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<400> 338
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<220>
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<223> Isolate from rGmH aptamer pool

<400> 339
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<210> 340
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<220>
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<210> 341
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 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.F10

<220>
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 <223> Isolate from rGmH aptamer pool

<400> 341
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<220>
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<210> 343

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<210> 349
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<210> 350
 <211> 79
 <212> DNA

<213> Artificial:clone of aptamer ARX34P2.D11

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<210> 351
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.E07

<220>
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<210> 352
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 <213> Artificial:clone of aptamer ARX34P2.E09

<220>
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 atcgatcgat cgatgaaggg cg 82

<210> 353
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P2.G12

<220>
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 <223> Isolate from rGmH aptamer pool

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tcgatcgatc gatgaagggc g

81

<210> 354
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<220>
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<223> Isolate from rGmH aptamer pool

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<220>
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<210> 356
<211> 82
<212> DNA
<213> Artificial:clone of aptamer ARX34P1.B07

<220>
<221> misc_feature
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<210> 357
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer ARX34P1.A07

<220>
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<220>
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<210> 359
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 <212> DNA
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<220>
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 atcgatcgat cgatgaaggg cg 82

<210> 360
 <211> 83
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<220>
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gatcgatcga tcgatgaagg gcg 83

<210> 361
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<212> DNA
<213> Artificial:clone of aptamer ARX34P1.B02

<220>
<221> misc_feature
<223> Isolate from rRmY aptamer pool

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gatcgatcga tcgatgaagg gcg 83

<210> 362
<211> 83
<212> DNA
<213> Artificial:clone of aptamer ARX34P1.G02

<220>
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<400> 362
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gatcgatcga tcgatgaagg gcg 83

<210> 363
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<213> Artificial:clone of aptamer ARX34P1.A04

<220>
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 <212> DNA
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<210> 365
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 <212> DNA
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<220>
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<210> 366
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<220>

<221> misc_feature
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<210> 367
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<220>
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<210> 368
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 <213> Artificial:clone of aptamer ARX34P1.H06

<220>
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<210> 369
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 <213> Artificial:clone of aptamer ARX34P1.C12

<220>
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<210> 370
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 <212> DNA
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 <220>
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 <210> 371
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 <220>
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 <212> DNA
 <213> Artificial:clone of aptamer ARX34P1.B05

 <220>
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 <212> DNA
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<220>
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 <223> Isolate from rRmY aptamer pool

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<210> 376
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 <212> DNA
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<220>
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<210> 377
 <211> 82

<212> DNA
 <213> Artificial:clone of aptamer ARX34P1.E02

 <220>
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 atcgatcgat cgatgaaggg cg 82

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 <220>
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 <223> Isolate from rRmY aptamer pool

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 <220>
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<220>
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<220>
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<213> Artificial:clone of aptamer ARX34P1.H10

<220>
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<220>
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 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F05

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<220>
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 <212> DNA
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 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A03

<220>
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 <223> Isolate from rRmY aptamer pool

<400> 395
 gggagaggag agaacgttct acaaacatcg aagatcgaac tgaaaaggag ggcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 396
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A06

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 396
 gggagaggag agaacgttct acatgtgcat gcaaggtggg gctgacacga gccgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 397
 <211> 80
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B01

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 397
 gggagaggag agaacgttct acaaggagta gatcgacaga atagaaaaat cgctgtcgat 60
 cgatcgatcg atgaagggcg 80

<210> 398
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B02

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 398
 gggagaggag agaacgttct acaaaaggta aggtcaaaaa agcgcaacgt tgacgtgtgc 60
 gatcgatcga tcgatgaagg gcg 83

<210> 399
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D04

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 399
 gggagaggag agaacgttct acaaaaggag gcgaaataag tgagacaatg tgcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 400
 <211> 81
 <212> DNA

<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B04

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 400
 gggagaggag agaacgttct acaaaaatcc acaaacatag ctgtaattgc tcgctgtcga 60
 tcgatcgatc gatgaagggc g 81

<210> 401
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B05

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 401
 gggagaggag agacgttcta caagaacata taacattttg gttgagagca acgctgtcga 60
 tcgatcgatc gatgaagggc g 81

<210> 402
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D03

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<220>
 <221> misc_feature
 <222> (30)..(30)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (39)..(39)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (61)..(61)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (73)..(73)

<223> n is a, c, g, or t

<400> 402
 gggagaggag agaacgttct acaagagtcn acgatttcna tcacaaatgt ggctgctgtc 60
 natcgatcga tcnatgaagg gcg 83

<210> 403
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C01

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 403
 gggagaggag agaacgttct acaagcaagc aaaaaaagta tcgacagaag tggcgctgtc 60
 gatcgatcga tcgatgaagg gcg 83

<210> 404
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D06

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 404
 gggagaggag agaacgttct acaagtaata tcagagcaat cggaataaga gtcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 405
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D02

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 405
 gggagaggag agaacgttct acagacttcg atgcgatgga tttggaaatg tgcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 406

<211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C03

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 406
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 atcgatcgat cgatgaaggc cg 82

<210> 407
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F06

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 407
 gggagaggag agaacgttct acagaaatca atcgaggatga tcgttatata gcggtgtcg 60
 atcgatcgat cgatgaaggc cg 82

<210> 408
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C04

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 408
 gggagaggag agaacgttct acagatttgg atcgacaatc tcgtagaaga gacgctgtcg 60
 atcgatcgat cgatgaaggc cg 82

<210> 409
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C06

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 409
 gggagaggag agaacgttct acaatgcaag tttaagtgtg gtgtcaaacg cacgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 410
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.G03

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 410
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 tcgatcgatc gatgaagggc g 81

<210> 411
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F03

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 411
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 atcgatcgat cgatgaaggg cg 82

<210> 412
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C02

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 412
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 tcgatcgatc gatgaagggc g 81

<210> 413
 <211> 84
 <212> DNA

<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B03

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 413
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 cgatcgatcg atcgatgaag ggcg 84

<210> 414
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B06

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 414
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 atcgatcgat cgatgaaggg cg 82

<210> 415
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C05

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 415
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 atcgatcgat cgatgaaggg cg 82

<210> 416
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D01

<220>
 <221> misc_feature
 <223> Isolate from rRmY aptamer pool

<400> 416
 gggagaggag agaacgttct acgacgtttg ctctgaaaat aggacagaag gcgctgtcga 60

tcgatcgatc gatgaagggc g 81

<210> 417

<211> 82

<212> DNA

<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.E03

<220>

<221> misc_feature

<223> Isolate from rRmY aptamer pool

<400> 417

gggagaggag agaacgttct acgaagatgt gtttaagaat cgaggttttc gacgctgtcg 60

atcgatcgat cgatgaaggg cg 82

<210> 418

<211> 82

<212> DNA

<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A04

<220>

<221> misc_feature

<223> Isolate from rRmY aptamer pool

<400> 418

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atcgatcgat cgatgaaggg cg 82

<210> 419

<211> 82

<212> DNA

<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A05

<220>

<221> misc_feature

<223> Isolate from rRmY aptamer pool

<400> 419

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atcgatcgat cgatgaaggg cg 82

<210> 420

<211> 84

<212> DNA

<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.E08.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <400> 420
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 cgatcgatcg atcgatgaag ggcg 84

 <210> 421
 <211> 84
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F08.M13F

 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <400> 421
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 cgatcgatcg atcgatgaag ggcg 84

 <210> 422
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.E09.M13F

 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <400> 422
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 gatcgatcga tcgatgaagg gcg 83

 <210> 423
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F09.M13F

 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <400> 423
 gggagaggag agaacgttct accttgggtct cagcagcttt taacaaagta tcccgtgtgc 60
 gatcgatcga tcgatgaagg gcg 83

<210> 424
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F07.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 424
 gggagaggag agaacgttct accgctattt tgttcattga aggacttgtc acgctgtcga 60
 tcgatcgatc gatgaagggc g 81

<210> 425
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.E07.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 425
 gggagaggag agaacgttct accgctattt tgttcattga aggacttgtc acgctgtcga 60
 tcgatcgatc gatgaagggc g 81

<210> 426
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.E11.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 426
 gggagaggag agaacgttct accctattga gggtgattgg aagtgcctat gtcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 427
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F11.M13F

<220>

<221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 427
 gggagaggag agaacgttct accctattga ggttgattgg aagtcctat gtcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 428
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F10.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 428
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 tcgatcgatc gatgaagggc g 81

<210> 429
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.E10.M13F

<220>
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 <223> Isolate from rGmH aptamer pool

<400> 429
 gggagaggag agaacgttct actgaagatg ttatgatgat tgacgaggag gcgctgtcga 60
 tcgatcgatc gatgaagggc g 81

<210> 430
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.E12.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 430
 gggagaggag agaacgttct actgtctgag tgtcgccgcc ttgtgtgatg ttcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 431
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.F12.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 431
 gggagaggag agaacgttct actgtctgag tgcgcgcgcc ttgtgtgatg ttcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 432
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A07.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 432
 gggagaggag agaacgttct acgtgatggc tgtgaatgag gtagttcgaa tacgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 433
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C12.M13F

<220>
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 <223> Isolate from rGmH aptamer pool

<400> 433
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 tcgatcgatc gatgaagggc g 81

<210> 434
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B07.M13F

<220>
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 <223> Isolate from rGmH aptamer pool

<400> 434
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 atcgatcgat cgatgaaggg cg 82

<210> 435
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A09.M13F

<220>
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 <223> Isolate from rGmH aptamer pool

<220>
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 <222> (19)..(19)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (48)..(48)
 <223> n is a, c, g, or t

<400> 435
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 atcgatcgat cgatgaaggg cg 82

<210> 436
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A11.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 436
 gggagaggag agaacgttct acgtcatcct agtctgagat cggattttct tgcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 437
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C09.M13F

<220>
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<223> Isolate from rGmH aptamer pool

<400> 437
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 atcgatcgat cgatgaaggg cg 82

<210> 438
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A08.M13F

<220>
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 <223> Isolate from rGmH aptamer pool

<400> 438
 gggagaggag agaacgttct acggattgat agggattgag atgaggtctt gtcgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

<210> 439
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D07.M13F

<220>
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 <223> Isolate from rGmH aptamer pool

<400> 439
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 tcgatcgatc gatgaagggc g 81

<210> 440
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D08.M13F

<220>
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 <223> Isolate from rGmH aptamer pool

<220>
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 <222> (60)..(60)
 <223> n is a, c, g, or t

<400> 440
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atcgatcgat cgatgaaggg cg 82

<210> 441
<211> 80
<212> DNA
<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B11.M13F

<220>
<221> misc_feature
<223> Isolate from rGmH aptamer pool

<400> 441
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cgatcgatcg atgaagggcg 80

<210> 442
<211> 82
<212> DNA
<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D09.M13F

<220>
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<400> 442
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atcgatcgat cgatgaaggg cg 82

<210> 443
<211> 82
<212> DNA
<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B10.M13F

<220>
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<223> Isolate from rGmH aptamer pool

<400> 443
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atcgatcgat cgatgaaggg cg 82

<210> 444
<211> 81
<212> DNA
<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C10.M13F

<220>
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 <223> Isolate from rGmH aptamer pool

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 tcgatcgatc gatgaagggc g 81

 <210> 445
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.A10.M13F

 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <400> 445
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 gatcgatcga tcgatgaagg gcg 83

 <210> 446
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B09.M13F

 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <400> 446
 gggagaggag agaacgttct acctgtgttg atgcttccgt ttgagattgc cccgctgtcg 60
 atcgatcgat cgatgaaggg cg 82

 <210> 447
 <211> 84
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.B12.M13F

 <220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

 <220>
 <221> misc_feature
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 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (50)..(51)
 <223> n is a, c, g, or t

<400> 447
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 cgatcgatcg atcgatgaag ggcg 84

<210> 448
 <211> 83
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C08.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 448
 gggagaggag agaacgttct acccttggtcc tccaatcctc ttttgactct tgccgctgtc 60
 gatcgatcga tcgatgaagg gcg 83

<210> 449
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D12.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 449
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 atcgatcgat cgatgaaggg cg 82

<210> 450
 <211> 83
 <212> DNA

<213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C11.M13F

<220>
 <221> misc_feature
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<400> 450
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 gatcgatcga tcgatgaagg gcg 83

<210> 451
 <211> 81
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.D11.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 451
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 tcgatcgatc gatgaagggc g 81

<210> 452
 <211> 82
 <212> DNA
 <213> Artificial:clone of aptamer PDGF-BB ARX36.SCK.C07.M13F

<220>
 <221> misc_feature
 <223> Isolate from rGmH aptamer pool

<400> 452
 gggagaggag agaacgttct acttcgtcgg ttgacttttc ttcgtgtagt gtcgctgtcg 60
 atcgattgat cgatgaaggg cg 82

<210> 453
 <211> 92
 <212> DNA
 <213> Artificial:aptamer library template

<220>
 <221> misc_feature
 <222> (24)..(53)
 <223> n is a, c, g, or t

<400> 453

catcgatcga tcgatcgaca gcgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngtagaac 60
 gttctctcct ctccctatag tgagtcgtat ta 92

<210> 454
 <211> 24
 <212> DNA
 <213> Artificial:3'-primer

<400> 454
 catcgatgct agtcgtaacg atcc 24

<210> 455
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 aucgaucgau cgaug 75

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atcgatcgat cgatg 75

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<400> 460
gggagaggag agaacgttct ac 22

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<210> 461
<211> 22
<212> DNA
<213> Artificial: PCR primer

<400> 461
catcgatcga tcgatcgaca gc

22

<210> 462
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<223>  cm

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nucgnucgnu cgnug                                                                75

<210>  463
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<212>  RNA
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<222>  (1)..(3)

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<223> each g has at least 90% probability of having a 2'-OMe group incorporated therein and no more than 10% of all g nucleotides are deoxy g

<220>

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<223> 2'-O-methyl adenosine

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<223> 2'-O-methyl adenosine

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<220>

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<223> 2'-O-methyl adenosine

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<220>

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<222> (15)..(15)

<223> cm

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<220>
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<222> (17)..(18)
<223> um

<220>
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deoxy g, each g has at least 90% probability of having a 2'-OMe group
incorporated therein and no more than 10% of all g nucleotides are deoxy g

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<220>
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gggngnggng ngncguucu ncnncnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nncgcugucg      60

nucgnucgnu cgnug                                                                    75

<210> 464
<211> 75
<212> DNA
<213> Artificial:dRmY aptamer ARC256 transcription product

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<222> (17)..(18)
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<222> (22)..(22)
<223> cm

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 aucgaucgau cgaug 75

<210> 465
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<223> cm

<400> 465
ggagcagcac c

11

<210> 466
<211> 19
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<222> (17)..(17)
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<220>
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<223> cm

<400> 466
ggugccaagu cguugcucc

19

<210> 467
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 cgatcgatcg atgaaggcg 80

<210> 468
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 <223> n is a, c, g, or u

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 aucgaucgau cgaug 75